

=> s (l1 or l2 or -tetracyclines) and granul? and fermentation solids and  
(antibacterial or infection ) and oil# and antibiotic

4 FILES SEARCHED...

11 FILES SEARCHED...

L3 2 (L1 OR L2 OR -TETRACYCLINES) AND GRANUL? AND FERMENTATION SOLIDS  
AND (ANTIBACTERIAL OR INFECTION ) AND OIL# AND ANTIBIOTIC

=> d 1,2

L3 ANSWER 1 OF 2 USPATFULL on STN

AN 2003:129821 USPATFULL

TI Apparatus for the preparation of chlortetracycline-containing animal  
feed compositions

IN Winstrom, Willis L., Omaha, NE, United States

PA Pennfield Oil Company, Omaha, NE, United States (U.S. corporation)

PI US 6562615 B1 20030513

AI US 2000-587410 20000605 (9)

RLI Continuation-in-part of Ser. No. US 1999-350474, filed on 9 Jul 1999

PRAI US 1998-103074P 19981005 (60)

US 1998-105229P 19981021 (60)

US 1999-115761P 19990113 (60)

DT Utility

FS GRANTED

LN.CNT 1473

INCL INCLM: 435/289.100

INCLS: 435/297.200; 435/813.000; 552/206.000; 424/442.000

NCL NCLM: 435/289.100

NCLS: 424/442.000; 435/297.200; 435/813.000; 552/206.000

IC [7]

ICM: C12M001-12

ICS: A23K001-17

EXF 260/559; 426/51; 426/54; 045/92; 435/64; 435/283.1; 435/289.1;

435/297.1; 435/297.2; 435/308.1; 435/813; 552/206; 424/442

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 2 USPATFULL on STN

AN 2003:13085 USPATFULL

TI Chlortetracycline-containing animal feed compositions and methods for  
their use

IN Winstrom, Willis L., Omaha, NE, United States

PA Pennfield Oil Company, Omaha, NE, United States (U.S. corporation)

PI US 6506402 B1 20030114

AI US 2000-587411 20000605 (9)

RLI Continuation-in-part of Ser. No. US 1999-350474, filed on 9 Jul 1999

PRAI US 1998-103074P 19981005 (60)

US 1998-105229P 19981021 (60)

US 1999-115761P 19990113 (60)

DT Utility

FS GRANTED

LN.CNT 1733

INCL INCLM: 424/442.000

INCLS: 426/633.000; 426/053.000; 426/054.000; 435/048.000

NCL NCLM: 424/442.000

NCLS: 426/053.000; 426/054.000; 426/633.000; 435/048.000

IC [7]

ICM: A61F013-00

ICS: A23L001-36; A23B007-10; C12P033-20

EXF 426/633; 426/53; 426/54; 424/80; 435/48

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

L4 ANSWER 3 OF 13 USPATFULL on STN  
 AN 1999:124781 USPATFULL  
 TI Polycyclic ether **antibiotic** having anthelmintic, anticoccidial and growth promotant activity  
 IN Cullen, Walter P., East Lyme, CT, United States  
 Dirlam, John P., Gales Ferry, CT, United States  
 Maeda, Hiroshi, Chita-Gun, Japan  
 Tone, Junsuke, Chita, Japan  
 PA Pfizer Inc., New York, NY, United States (U.S. corporation)  
 PI US 5965445 19991012  
 AI US 1992-849552 19920311 (7)  
 RLI Continuation of Ser. No. US 1990-527627, filed on 23 May 1990, now patented, Pat. No. US 5155097  
 DT Utility  
 FS Granted  
 LN.CNT 576  
 INCL INCLM: 435/886.000  
 INCLS: 435/074.000; 435/119.000; 514/025.000; 514/027.000; 536/016.800; 536/018.100  
 NCL NCLM: 435/886.000  
 NCLS: 435/074.000; 435/119.000; 514/025.000; 514/027.000; 536/016.800; 536/018.100  
 IC [6]  
 ICM: C12N001-00  
 EXF 536/16.8; 536/18.1; 514/25; 514/27; 435/74; 435/119; 435/886  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 13 USPATFULL on STN  
 AN 95:45523 USPATFULL  
 TI Acidic polycyclic ether **antibiotic**  
 IN Cullen, Walter P., East Lyme, CT, United States  
 Dirlam, John P., Gales Ferry, CT, United States  
 Maeda, Hiroshi, Aichi, Japan  
 Tone, Junsuke, Chita, Japan  
 PA Pfizer Inc, New York, NY, United States (U.S. corporation)  
 PI US 5418152 19950523  
 AI US 1993-30086 19930312 (8)  
 WO 1991-US6084 19910830  
 19930312 PCT 371 date  
 19930312 PCT 102(e) date  
 RLI Continuation of Ser. No. US 1990-592429, filed on 4 Oct 1990, now abandoned  
 DT Utility  
 FS Granted  
 LN.CNT 590  
 INCL INCLM: 435/118.000  
 INCLS: 435/123.000; 435/252.100; 514/451.000; 514/453.000; 514/460.000; 514/462.000  
 NCL NCLM: 435/118.000  
 NCLS: 435/123.000; 435/252.100; 514/451.000; 514/453.000; 514/460.000; 514/462.000  
 IC [6]  
 ICM: C12P017-16  
 EXF 435/125; 435/252.1; 435/123; 435/118; 549/343; 514/460  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 13 USPATFULL on STN  
 AN 95:29541 USPATFULL  
 TI Microorganism for producing polycyclic ether **antibiotics**  
 IN Dirlam, John P., Gales Ferry, CT, United States  
 Cullen, Walter P., East Lyme, CT, United States  
 Maeda, Hiroshi, Chita, Japan  
 Tone, Junsuke, Chita, Japan

PA Pfizer Inc., New York, NY, United States (U.S. corporation)  
PI US 5403738 19950404  
AI US 1993-169566 19931217 (8)  
RLI Division of Ser. No. US 1992-655440, filed on 27 Mar 1992, now patented,  
Pat. No. US 5298524  
DT Utility  
FS Granted  
LN.CNT 628  
INCL INCLM: 435/252.100  
INCLS: 435/825.000; 435/118.000; 435/119.000  
NCL NCLM: 435/252.100  
NCLS: 435/118.000; 435/119.000; 435/825.000  
IC [6]  
ICM: C12N001-20  
EXF 435/252.1; 435/119; 435/822; 435/118; 435/117; 435/825; 435/170  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 13 USPATFULL on STN  
AN 93:29187 USPATFULL  
TI **Antibiotic** cyclopeptide fermentation product  
IN Schwartz, Robert E., Westfield, NJ, United States  
Liesch, Jerrold M., Princeton Junction, NJ, United States  
White, Raymond F., Englishtown, NJ, United States  
Hensens, Otto D., Red Bank, NJ, United States  
Joshua, Henry, Staten Island, NY, United States  
Schmatz, Dennis M., Cranford, NJ, United States  
PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)  
PI US 5202309 19930413  
AI US 1991-749633 19910819 (7)  
RLI Continuation of Ser. No. US 1990-492025, filed on 12 Mar 1990, now  
abandoned which is a continuation-in-part of Ser. No. US 1989-374416,  
filed on 30 Jun 1989, now abandoned  
DT Utility  
FS Granted  
LN.CNT 995  
INCL INCLM: 514/011.000  
INCLS: 530/317.000; 530/323.000; 530/332.000  
NCL NCLM: 514/011.000  
NCLS: 530/317.000; 530/323.000; 530/332.000  
IC [5]  
ICM: A61K037-02  
ICS: C07K007-54  
EXF 530/317; 530/323; 530/332; 514/9; 514/11  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 13 USPATFULL on STN  
AN 93:20473 USPATFULL  
TI **Antibiotic** agent  
IN Schwartz, Robert E., Westfield, NJ, United States  
White, Raymond F., Englishtown, NJ, United States  
PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)  
PI US 5194377 19930316  
AI US 1991-742968 19910809 (7)  
RLI Division of Ser. No. US 1990-492025, filed on 12 Mar 1990 which is a  
continuation-in-part of Ser. No. US 1989-374416, filed on 30 Jun 1989,  
now abandoned  
DT Utility  
FS Granted  
LN.CNT 951  
INCL INCLM: 435/071.100  
INCLS: 435/713.000; 435/119.000; 435/171.000; 435/252.100; 435/253.600;  
435/254.000; 435/911.000; 530/317.000  
NCL NCLM: 435/071.100  
NCLS: 435/071.300; 435/119.000; 435/171.000; 435/252.100; 435/253.600;

435/254.100; 435/911.000; 530/317.000

IC [5]  
ICM: C12P021-04  
ICS: C12N001-00; C12N001-14; C12R001-645  
EXF 435/71.1; 435/71.3; 435/119; 435/252.1; 435/171; 435/253.6; 435/911;  
435/254; 530/317  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 13 USPATFULL on STN  
AN 92:84855 USPATFULL  
TI Polycyclic ether **antibiotic** having anthelmintic, anticoccidial  
and growth promotant activity  
IN Cullen, Walter P., East Lyme, CT, United States  
Dirlam, John P., Gales Ferry, CT, United States  
Maeda, Hiroshi, Chita, Japan  
Tone, Junsuke, Chita, Japan  
PA Pfizer Inc, New York, NY, United States (U.S. corporation)  
PI US 5155097 19921013  
AI US 1990-527627 19900523 (7)  
DT Utility  
FS Granted  
LN.CNT 566  
INCL INCLM: 514/027.000  
INCLS: 536/016.800; 536/018.100; 514/025.000; 435/074.000; 435/119.000;  
435/886.000  
NCL NCLM: 514/027.000  
NCLS: 435/074.000; 435/119.000; 435/886.000; 514/025.000; 536/016.800;  
536/018.100

IC [5]  
ICM: A61K031-71  
ICS: C07H017-04  
EXF 536/16.8; 536/18.1; 514/27; 514/25; 435/74; 435/886; 435/119  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 13 USPATFULL on STN  
AN 91:92554 USPATFULL  
TI Acid polycyclic ether **antibiotic**  
IN Cullen, Walter P., Groton, CT, United States  
Hauske, James R., Groton, CT, United States  
Kostek, Gloria J., Groton, CT, United States  
Maeda, Hiroshi, Groton, CT, United States  
Tone, Junsuke, Groton, CT, United States  
PA Pfizer Inc., New York, NY, United States (U.S. corporation)  
PI US 5064855 19911112  
AI US 1991-649120 19910128 (7)  
RLI Continuation of Ser. No. US 1990-467589, filed on 19 Jan 1990, now  
abandoned which is a division of Ser. No. US 1989-315953, filed on 27  
Feb 1989, now patented, Pat. No. US 4920050

DT Utility  
FS Granted  
LN.CNT 564  
INCL INCLM: 514/460.000  
INCLS: 549/343.000  
NCL NCLM: 514/460.000  
NCLS: 549/343.000

IC [5]  
ICM: A61K031-35  
ICS: C07D311-00  
EXF 549/343; 514/460  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 13 USPATFULL on STN  
AN 91:44651 USPATFULL  
TI **Antibiotic** agent produced by the cultivation of Zalerion

microorganism in the presence of mannitol

IN Giacobbe, Robert A., Lavallette, NJ, United States  
 Tkacz, Jan S., Piscataway, NJ, United States  
 Masurekar, Prakash S., Warren, NJ, United States  
 Kaplan, Louis, New City, NY, United States  
 Sosa, Margaret S., Elizabeth, NJ, United States

PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)

PI US 5021341 19910604

AI US 1990-492026 19900312 (7)

DT Utility

FS Granted

LN.CNT 972

INCL INCLM: 435/071.100  
 INCLS: 435/071.300; 435/119.000; 435/247.000; 435/254.000; 435/911.000

NCL NCLM: 435/071.100  
 NCLS: 435/071.300; 435/119.000; 435/247.000; 435/254.100; 435/256.800;  
 435/911.000

IC [5]  
 ICM: C12P021-04  
 ICS: C12N001-00; C12N001-14; C12N001-32

EXF 435/71.1; 435/71.3; 435/119; 435/911; 425/254; 425/247

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 13 USPATFULL on STN

AN 90:32137 USPATFULL

TI Acidic polycyclic ether **antibiotic**

IN Cullen, Walter P., East Lyme, CT, United States  
 Hauske, James R., East Lyme, CT, United States  
 Kostek, Gloria J., Preston, CT, United States  
 Maeda, Hiroshi, Aichi, Japan  
 Tone, Junsuke, Chita, Japan

PA Pfizer Inc., New York, NY, United States (U.S. corporation)

PI US 4920050 19900424

AI US 1989-315953 19890227 (7)

DT Utility

FS Granted

LN.CNT 556

INCL INCLM: 435/119.000  
 INCLS: 435/118.000; 435/125.000; 435/253.500; 435/886.000; 549/334.000

NCL NCLM: 435/119.000  
 NCLS: 435/118.000; 435/125.000; 435/253.500; 435/886.000; 549/334.000

IC [5]  
 ICM: C12P017-18  
 ICS: C12P017-06; C12N001-20; C07D317-00

EXF 435/101; 435/886; 435/822; 435/252.1; 435/119; 435/118; 435/125;  
 435/253.5; 536/120

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 12 OF 13 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 405997 EUROPATFULL ED 20000827 EW 199101 FS OS STA B

TIEN **Antibiotic agent.**

TIDE Antibiotische Mittel.

TIFR Agent antibiotique.

IN Schwartz, Robert E., 765 Summit Avenue, Westfield NJ 07090, US;  
 White, Raymond F., 12 Becket Road, Englishtown NJ 07726, US;  
 Liesch, Jerrold M., 10 Sherbrooke Drive, Princeton Junction NJ 08550,  
 US;  
 Hensens, Otto D., 65 Alexander Drive, River Plaza, Red Bank, NJ 07701,  
 US;  
 Joshua, Henry, 256 Woodward Avenue, Staten Island, NY 10314, US;  
 Schmatz, Dennis M., 306 Elizabeth Avenue, Cranford NJ 07016, US;

Tkacz, Jan S., 620 S. Randolphville Road, Piscataway, NJ 08854, US;  
Kaplan, Louis, 7 Lexington Road, New City NY 10956, US;  
Sosa, Margaret S., 126 Lincoln Avenue, Elizabeth, NJ 07208, US;  
Fountoulakis, Jimmy M., 2421 Longfellow Avenue, Westfield, NJ 07090, US;  
Giacobbe, Robert A., 230 Westmont Avenue, Lavallette, NJ 08735, US;  
Masurekar, Prakash S., 35 Christy Drive, Warren, NJ 07060, US

PA MERCK & CO. INC., 126, East Lincoln Avenue P.O. Box 2000, Rahway New  
Jersey 07065-0900, US

SO Wila-EPZ-1991-H01-T1

DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R LU;  
R NL; R SE

PIT EPA1 EUROPÄISCHE PATENTANMELDUNG

PI EP 405997 A1 19910102

OD 19910102

AI EP 1990-307124 19900629

PRAI US 1989-374416 19890630  
US 1990-492025 19900312  
US 1990-492026 19900312  
US 1990-492024 19900312

IC ICM C07K007-06

ICI ICS C12P021-04 A61K037-02  
C12P021-04 C12R001:645

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 405997 EUROPATFULL UP 20011005 EW 199430 FS PS STA B

TIEN **Antibiotic agent.**

TIDE Antibiotische Mittel.

TIFR Agent antibiotique.

IN Schwartz, Robert E., 765 Summit Avenue, Westfield NJ 07090, US;  
White, Raymond F., 12 Becket Road, Englishtown NJ 07726, US;  
Liesch, Jerrold M., 10 Sherbrooke Drive, Princeton Junction NJ 08550,  
US;  
Hensens, Otto D., 65 Alexander Drive, River Plaza, Red Bank, NJ 07701,  
US;  
Joshua, Henry, 256 Woodward Avenue, Staten Island, NY 10314, US;  
Schmatz, Dennis M., 306 Elizabeth Avenue, Cranford NJ 07016, US;  
Tkacz, Jan S., 620 S. Randolphville Road, Piscataway, NJ 08854, US;  
Kaplan, Louis, 7 Lexington Road, New City NY 10956, US;  
Sosa, Margaret S., 126 Lincoln Avenue, Elizabeth, NJ 07208, US;  
Fountoulakis, Jimmy M., 2421 Longfellow Avenue, Westfield, NJ 07090, US;  
Giacobbe, Robert A., 230 Westmont Avenue, Lavallette, NJ 08735, US;  
Masurekar, Prakash S., 35 Christy Drive, Warren, NJ 07060, US

PA MERCK & CO. INC., 126, East Lincoln Avenue P.O. Box 2000, Rahway New  
Jersey 07065-0900, US

SO Wila-EPS-1994-H30-T1

DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R LU;  
R NL; R SE

PIT EPB1 EUROPÄISCHE PATENTSCHRIFT

PI EP 405997 B1 19940727

OD 19910102

AI EP 1990-307124 19900629

PRAI US 1989-374416 19890630  
US 1990-492025 19900312  
US 1990-492026 19900312  
US 1990-492024 19900312

REP EP 31662 A EP 32009 A  
EP 311193 A WO 82-00587 A

REN Chemical Abstracts. vol., 110, no., 21, 22 May 1989, page 384, abstract  
no., 188994u, Columbus, Ohio, US; R. E. SCHWARTZ et al.: "L-671,329, a  
new antifungal agent. I. Fermentation and isolation" & J. Antibot. 1989,  
vol. 42, no. 2, pages 163-167

IC ICM C07K007-06

ICI ICS C12P021-04 A61K037-02

ICI C12P021-04 C12R001:645

L4 ANSWER 13 OF 13 IFIPAT COPYRIGHT 2004 IFI on STN

AN 03814108 IFIPAT;IFIUDB;IFICDB

TI CHLORTETRACYCLINE-CONTAINING ANIMAL FEED COMPOSITIONS AND METHODS FOR  
THEIR USE

IN Winstrom Willis L

PA Pennfield Oil Co (63971)

PI US 6506402 B1 20030114

AI US 2000-587411 20000605

RLI US 1999-350474 19990709 CONTINUATION-IN-PART PENDING

PRAI US 1998-103074P 19981005 (Provisional)

US 1998-105229P 19981021 (Provisional)

US 1999-115761P 19990113 (Provisional)

FI US 6506402 20030114

DT Utility

FS CHEMICAL

GRANTED

OS CA 138:95660

MRN 010849 MFN: 0992

CLMN 104

GI 6 Drawing Sheet(s), 6 Figure(s).

FIGS. 1 and 2 are flow charts outlining processes for preparing a  
chlortetracycline-containing animal feed composition in accordance with  
two embodiments of the present invention wherein the chlortetracycline is  
present in the form of a complex;

FIGS. 3 and 4 are flow charts outlining processes for preparing a  
chlortetracycline-containing animal feed composition in accordance with  
two embodiments of the present invention wherein the chlortetracycline is  
present in the form of the free base; and

FIGS. 5 and 6 are schematic diagrams of two systems designed for carrying  
out procedures of the present invention.

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